

264-1057

2/21/2008

1/8



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES  
**NOTIFICATION**

FEB 21 2008

Danielle A. Larochelle  
Registration Product Manager  
Bayer CropScience  
P.O. Box 12014  
2 T.W. Alexandria Drive  
Research Triangle Park, NC 27709

Subject: Label Notification(s) for Pesticide Registration Notice 2007-4

Dear Ms. Larochelle:

The Agency is in receipt of your Application(s) for Pesticide Notification under Pesticide Registration Notice (PRN) 2007-4 dated February 21, 2008 for:

**EPA Registration 264-1057      AERIS Seed-Applied Insecticide/Nematicide**

The Registration Division (RD) has conducted a review of this request for applicability under PRN 2007-4 and finds that the label change(s) requested falls within the scope of PRN-2007-4. The label has been date-stamped "Notification" and will be placed in our records.

Please be reminded that 40 CFR Part 156.140(a)(4) requires that a batch code, lot number, or other code identify the batch of the pesticide distributed and sold be placed on nonrefillable containers. The code may appear either on the label (and can be added by non-notification/PR Notice 98-10) or durably marked on the container itself.

If you have any questions, please contact me directly at 703-305-6249 or Nicole Williams of my staff at 703-308-5551.

Sincerely,

Linda Arrington  
Notifications & Minor Formulations Team Leader  
Registration Division (7505P)  
Office of Pesticide Programs



Please read instructions on reverse before completing form.

Form Approved. OMB No. 2070-0060

2/3

<p>United States <b>Environmental Protection Agency</b> Washington, DC 20460</p>	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number _____
--	--	-----------------------------

### Application for Pesticide - Section I

1. Company/Product Number 264-1057	2. EPA Product Manager Thomas Harris	3. Proposed Classification <input type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) AERIS (TM) Seed-Applied Insecticide/Nematicide	PM# Team 7	
5. Name and Address of Applicant (Include ZIP Code) Bayer CropScience P.O. Box 12014; 2 T.W. Alexander Drive Research Triangle Park, NC 27709  <input type="checkbox"/> Check if this is a new address		6. Expedited Review. In accordance with FIFRA Section 3(c)(3) (b)(i), my product is similar or identical in composition and labeling to: EPA Reg. No. _____  Product Name _____

### Section - II

<input type="checkbox"/> Amendment - Explain below.	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> "Me Too" Application.
<input checked="" type="checkbox"/> Notification - Explain below.	<input type="checkbox"/> Other - Explain below.

**Explanation:** Use additional page(s) if necessary. (For section I and Section II.)

Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

### Section - III

1. Material This Product Will Be Packaged In:				2. Type of Container	
Child-Resistant Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No			<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted.		If "Yes" Unit Packaging wgt.    No. per container	If "Yes" Package wgt.    No. per container		
3. Location of Net Contents Information <input checked="" type="checkbox"/> Label <input type="checkbox"/> Container		4. Size(s) Retail Container 30 gal drums & 260 gal Bulk cont.		5. Location of Label Directions <input checked="" type="checkbox"/> on Label	
6. Manner in Which Label is Affixed to Product			<input checked="" type="checkbox"/> Lithograph <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled <input type="checkbox"/> Other _____		

### Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Danielle A. Larochelle	Title Registration Product Manager	Telephone No. (include Area Code) 919/549-2718
<b>Certification</b> I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.		6. Date Application Received  <b>(Stamped)</b>
2. Signature 		
3. Title Registration Product Manager		
4. Typed Name Danielle A. Larochelle		5. Date February 21, 2008

# Bayer CropScience



February 11, 2008

Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
U.S. Environmental Protection Agency  
Room S-4900, One Potomac Yard  
2777 South Crystal Drive  
Arlington, Virginia 22202-4501

Attention: Mr. Thomas Harris, Insecticide / Rodenticide Branch, RD

Dear Mr. Harris,

Re: **AERIS™ Seed-Applied Insecticide/Nematicide**  
**EPA Reg. No. 264-1057**  
**Notification of Label Change per PR Notice 2007-4**

Bayer CropScience  
RTP  
P. O. Box 12014  
RTP, NC 27709  
Tel. 919 549-2000

In accordance with PR Notice 2007-4, we are notifying the Agency of a label amendment revising the container disposal statement for AERIS™ Seed-Applied Insecticide/Nematicide. The language used in the new statement is exactly as provided in Appendix B of PR Notice 2007.

The following documents are attached in support of this action:

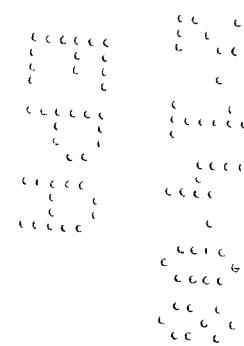
- ❖ A completed Application for Pesticide Registration (EPA Form 8570-1).
- ❖ One (1) copy of the label with the revised language highlighted in yellow.

Please call me at (919) 549-2718 if you need additional information. You can also reach me by email at [danielle.larochelle@bayercropscience.com](mailto:danielle.larochelle@bayercropscience.com).

Sincerely,

Danielle A. Larochelle  
Registration Product Manager

Corr. # daL019-08



4/8

## **RESTRICTED USE PESTICIDE**

Due to Avian, Aquatic and Small Mammal Toxicity  
For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered  
by the Certified Applicator's Certification.

# **AERIS™ Seed-Applied**

## **Insecticide/Nematicide**

**For Use Only in Commercial Seed Treatment Equipment**

### **ACTIVE INGREDIENTS**

**THIODICARB:** Dimethyl N, N' [thiobis[(methylimino)carbonyloxy]]bis[ethanimidothioate] ..... **24% by wt.**

**IMIDACLOPRID:** 1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine] ..... **24% by wt.**

**INERT INGREDIENTS** ..... **52% by wt.**

Contains 2.5 pounds active imidacloprid per U.S. gallon

Contains 2.5 pounds active thiodicarb per U.S. gallon

**EPA Reg. No. 264-1057**

**EPA Est. No. 264-MO-02**

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

For **MEDICAL** And **TRANSPORTATION** Emergencies **ONLY** Call 24 Hours A Day 1-800-334-7577  
For **PRODUCT USE** Information Call 1-866-99BAYER (1-866-992-2937)

### **FIRST AID**

Thiodicarb is an N-methyl carbamate.

<b>IF SWALLOWED:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>IF ON SKIN OR CLOTHING:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>

**For MEDICAL Emergencies Call 24 Hours A Day 1-800-334-7577.**

**Have the product container or label with you when calling a poison control center or doctor or going for treatment.**

### **SIGNS AND SYMPTOMS OF OVEREXPOSURE**

Salivation, Muscle tremors, Nausea, Watery eyes, Difficult breathing, Vomiting, Pinpoint eye pupils, Excessive sweating, Diarrhea, Blurred vision, Abdominal cramps, Weakness, Headache.

**IN SEVERE CASES, CONVULSIONS, UNCONSCIOUSNESS, AND RESPIRATORY FAILURE MAY OCCUR.**

**ANTIDOTE STATEMENT:** ATROPINE SULFATE IS HIGHLY EFFECTIVE AS AN ANTIDOTE. See NOTE TO PHYSICIAN.

**GENERAL**

Contact a physician immediately in all cases of suspected poisoning. If breathing stops, establish an airway, start artificial respiration, and provide oxygen. Make certain to remove all sources of continuing contamination. Remove clothing and wash skin and hair immediately with large amounts of water. Transport the patient to a physician or hospital immediately and SHOW A COPY OF THIS LABEL TO THE PHYSICIAN. If poisoning is suspected in animals, contact a veterinarian.

**NOTE TO PHYSICIAN**

All treatments should be based on observed signs and symptoms of distress in the patient. Overexposure to materials other than this product may have occurred.

This product contains an N-methyl carbamate insecticide, which is a cholinesterase inhibitor. Overexposure to this substance may cause toxic signs and symptoms due to stimulation of the cholinergic nervous system. These effects of overexposure are spontaneously and rapidly reversible. Gastric lavage may be used if this product has been swallowed. AERIS™ Seed-Applied Insecticide/Nematicide poisoning may occur rapidly after ingestion and prompt removal of stomach contents is indicated.

Specific treatment consists of parenteral atropine sulfate. Caution should be maintained to prevent over atropinization. Mild cases may be given 1 to 2 mg intramuscularly every 10 minutes until full atropinization has been achieved and repeated thereafter whenever symptoms reappear. Severe cases should be given 2 to 4 mg intravenously every 10 minutes until fully atropinized, then intramuscularly every 30 to 60 minutes as needed to maintain the effect for at least 12 hours. Dosages for children should be appropriately reduced. Complete recovery from overexposure is to be expected within 24 hours.

Narcotics and other sedatives should not be used. Further, drugs like 2-PAM (pyridine-2-aldoxime methiodide) are NOT recommended unless organophosphate intoxication is also suggested.

To aid in confirmation of a diagnosis, urine samples should be obtained within 24 hours of exposure and immediately frozen. Analyses will be arranged by Bayer CropScience.

Consultation on therapy can be obtained at all hours by calling the Bayer CropScience emergency number: 1-800-334-7577.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

Harmful if swallowed, absorbed through skin, or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid breathing fumes. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals. Remove contaminated clothing and wash before reuse.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Workers involved with treating the seed (e.g. connecting and disconnecting hoses and transfer pumps, mixing, equipment calibration, etc.) and others exposed to the concentrate, and cleaners/repairers of seed treatment equipment must wear a long-sleeve shirt and long pants, shoes plus socks, chemical resistant gloves made out of any waterproof material, and a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any R, P, or HE filter.

Baggers and bag sewers must wear a long-sleeve shirt and long pants, shoes plus socks, chemical resistant gloves made out of any waterproof material, and a dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C) or a NIOSH approved respirator with any R, P, or HE filter.

**User Safety Recommendations**

- Users should wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.
- Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**ENVIRONMENTAL HAZARDS**

This product is highly toxic to birds and aquatic invertebrates and toxic to fish and mammals. Do not contaminate water when disposing of equipment washwater or rinsate.

6/8

# DIRECTIONS FOR USE

## RESTRICTED USE PESTICIDE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

### GENERAL DIRECTIONS

For use only in commercial seed treatment equipment. Not for use in hopper box, planter box, slurry box, or other farmer-applied applications.

Read the entire label and observe all label directions and precautions before use. Do not use this product except as directed on this label or on other Bayer CropScience supplemental labeling for this product.

### COMPATIBILITY

It is essential that before using AERIS™ Seed-Applied Insecticide/Nematicide in any tank mixture the compatibility of the mixture be established. Add AERIS™ Seed-Applied Insecticide/Nematicide at the recommended label rate to a clean quart jar containing approximately one-half the amount of water intended for a final slurry application rate. Next, follow with all other tank mix components that will be used in the total slurry application. Add last the remaining balance of water. The total amount of volume is determined by the seed size and how much is necessary to ensure complete and uniform coverage and distribution on the seed, as well as the type of commercial seed treating application equipment that will be used

DO NOT USE MIXTURES THAT CURDLE, PRECIPITATE, OR GEL. FOR BEST RESULTS, TANK MIXTURES SHOULD BE USED IMMEDIATELY AFTER MIXING WITH ADEQUATE AGITATION.

**NOTE:** Thiodicarb is hydrolytically sensitive to degradation of active ingredient by strong acids AND strong bases. DO NOT ADD AERIS™ SEED-APPLIED INSECTICIDE/NEMATICIDE TO WATER WITH pH VALUES BELOW 3.0 OR ABOVE 8.5. If necessary, water should be buffered within this range before adding AERIS™ Seed-Applied Insecticide/Nematicide. Degradation can cause reduced effectiveness, plant phytotoxicity and increased handling hazards.

### DIRECTIONS FOR SEED TREATMENT

All seed treated with this product must be colored with an EPA-approved dye or colorant that imparts an unnatural color to the seed to help prevent the inadvertent use of treated seed for food, feed or oil purposes.

---

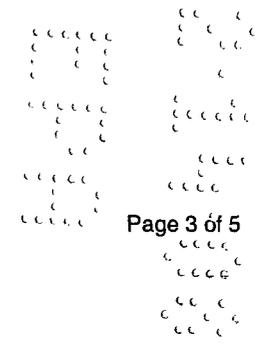
## COTTON (Delinted Seed Only)

### For Early Season Protection Against Certain Sucking and Lepidopteran Insects and Certain Nematodes:

AERIS Seed-Applied Insecticide will provide protection of cotton seedlings against injury by early season thrips, aphids, lygus, fleahoppers, cutworms and reniform and root knot nematodes. Where the specific application rate is desired on an individual seed basis apply 0.375 mg. imidacloprid and 0.375 mg. thiodicarb per seed prior to planting as a slurry treatment so as to ensure thorough coverage. Otherwise apply 25.6 fluid ounces product per hundred pounds of seed. Do not apply more than 25.6 fluid ounces per hundredweight of seed.

Do not exceed a total of 5.4 pounds thiodicarb per acre per season for seed treatment and foliar applications combined. In Arizona and California, do not exceed a total of 1.8 pounds thiodicarb per acre per season for seed treatment and foliar applications combined.

Do not exceed a total of 0.5 pounds imidacloprid per acre per season for seed treatment, soil, and foliar applications combined.



## SEED BAG LABEL REQUIREMENTS

The Federal Seed Act requires that bags containing treated seeds shall be labeled with the following statements:

- This seed has been treated with thiodicarb and imidacloprid.
- Do not use for food, feed or oil purposes.

In addition, the U.S. Environmental Protection Agency requires the following statements on bags containing cottonseed treated with AERIS™ Seed-Applied Insecticide/Nematicide:

- Store away from food and feedstuffs.
- Do not allow children, pets, or livestock to have access to treated seeds.
- Wear long-sleeved shirt, long pants, and chemical resistant gloves made out of any waterproof material when handling treated seed.
- Growers must not exceed a total of 5.4 pounds thiodicarb per acre per season for seed treatment and foliar applications combined. In Arizona and California, do not exceed a total of 1.8 pounds thiodicarb per acre per season for seed treatment and foliar applications combined.
- Growers must not exceed a total of 0.5 pounds imidacloprid per acre per season for seed treatment, soil, and foliar applications combined.
- Treated seed must be planted into the soil at a depth greater than 1 inch. Treated seeds exposed on soil surface may be hazardous to birds or other wildlife. Cover or collect treated seeds that are spilled during loading and in areas such as row ends.
- Dispose of all excess treated seed by burial away from bodies of water.
- Dispose of seed packaging in accordance with local requirements.
- Do not contaminate bodies of water when disposing of planting equipment wash water.
- Plant AERIS™ Seed-Applied Insecticide/Nematicide treated cotton seed based upon local production and Best Management Practices as recommended by your state's Cotton Specialist, IPM Coordinator and Extension Nematologist. In soils with a history of high nematode populations, an at-plant application of TEMIK® brand 15G Aldicarb Pesticide is recommended.
- Always calibrate planters prior to planting to ensure the desired seeding rate.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

### PESTICIDE STORAGE

Store unused product in a cool, ventilated, dry area. Do not allow prolonged storage in areas where temperatures frequently exceed 115°F (46°C) or go below 35°F (2°C). NEVER TRANSFER THIS PRODUCT TO ANOTHER CONTAINER FOR STORAGE.

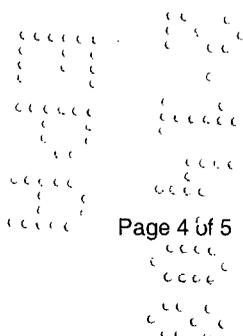
### PESTICIDE DISPOSAL

Improper disposal of excess pesticides or rinsate is a violation of federal law. If these wastes cannot be disposed of by use according to label instructions, contact your state pesticide or environmental control agency or the hazardous waste representative at the nearest EPA regional office for guidance.

### CONTAINER DISPOSAL

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling, if available, or offer for reconditioning, if appropriate, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by state and local authorities, by burning. If container is burned, stay out of smoke.

**ACCIDENTS:** In case of a major spill of AERIS™ Seed-Applied Insecticide/Nematicide  
TELEPHONE (24 HOURS A DAY) IN THE U.S.A. 1-800-334-7577.



# WARRANTY STATEMENT

## IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

**CONDITIONS:** The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience. All such risks shall be assumed by the user or buyer.

**DISCLAIMER OF WARRANTIES:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

**LIMITATIONS OF LIABILITY:** TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE'S ELECTION, THE REPLACEMENT OF PRODUCT.

## NET CONTENTS:

\* TEMIK is a registered trademark of Bayer.

PRODUCED FOR



**Bayer CropScience**

**Bayer CropScience LP  
P.O. Box 12014, 2 T.W. Alexander Drive  
Research Triangle Park, North Carolina 27709  
1-866-99BAYER (1-866-992-2937)**

AERIS™ Seed-Applied Insecticide/Nematicide (MASTER) EPA Approved 07/09/07, Notification 10/09/07; Notification 02/01/03

Page 5 of 5